CLAIMS

What is claimed is:

1. A single transceiver system for utilizing a plurality of different communication standards, comprising:

a single transceiver;

wherein the single transceiver utilizes a plurality of different communication standards.

2. The system as recited in claim 1, wherein the single transceiver receives signals utilizing a first communication standard.

3. The system as recited in claim 2, wherein the single transceiver demodulates the signals into information bits.

4. The system as recited in claim 3, wherein the information bits are buffered.

5. The system as recited in claim 3, wherein the single transceiver re-modulates the information bits into signals utilizing a second communication standard.

6. The system as recited in claim 5, wherein the single transceiver transmits the signals.

7. The system as recited in claim 1, wherein the single transceiver utilizes the plurality of different communication standards by multiplexing therebetween.

8. The system as recited in claim 1, wherein the single transceiver is coupled to an antenna sub-system capable of communicating utilizing the plurality of different communication standards.

9. The system as recited in claim 1, wherein the single transceiver is coupled to a plurality of baseband sub-systems each capable of processing one of the communication standards.

10. The system as recited in claim 9, wherein the baseband sub-systems are implemented utilizing a plurality of discrete processors.

11. The system as recited in claim 9, wherein the baseband sub-systems are implemented utilizing a single integrated processor.

12. The system as recited in claim 9, wherein at least one of a time and a duration of access to the single transceiver by the baseband sub-systems is tracked.

13. The system as recited in claim 12, wherein each of the baseband sub-systems access the single transceiver during assigned time intervals.

14. The system as recited in claim 9, wherein each of the baseband sub-systems share memory.

15. The system as recited in claim 9, wherein the baseband sub-systems optimize a frequency or duration of transmissions or receptions in order to at least one of minimize a radio utilization, minimize a spectrum utilization, maximize a link throughput, and optimize a system parameter.

16. The system as recited in claim 9, wherein the baseband sub-systems at least one of translate, code, and decode information bits so as to make the information bits compatible with the plurality of different communication standards.

17. A method for utilizing a single transceiver, comprising:
receiving signals utilizing a first standard;

demodulating the signals into information bits;

re-modulating the information bits into signals utilizing a second standard; and

transmitting the signals utilizing the second standard;

wherein the receiving and the transmitting are carried out utilizing a single transceiver.

18. A system, comprising:

a device in communication with a communication network, wherein the device includes a single radio transceiver;

wherein the single radio transceiver utilizes a plurality of different communication standards.

19. The system as recited in claim 18, wherein the communication network includes wireless and wired communication elements.